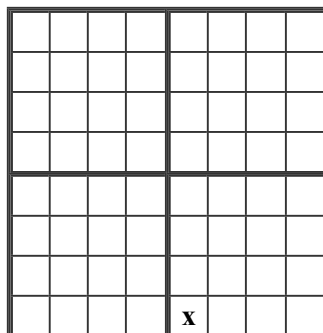




MULTI-PURPOSE WELL COMPLETION & PLUGGING REPORT

Oklahoma Water Resources Board
3800 North Classen Boulevard
Oklahoma City, OK 73118
Telephone (405) 530-8800

Legal Location
North



«———— One Mile —————»
Each square is 10-acres

PENDING ID NUMBER: 73177

(Well ID is assigned when log is submitted.) WELL ID NUMBER: 73177

Quarters SW-SW-SE Section 13 Township 27N Range 05E

Latitude 36.81135

Longitude -96.7162667

Date collected(latitude and longitude), if different from date the well was drilled:
08/01/2013

Method latitude and longitude was collected: Mathematical conversion program

County Osage

Variance Request No. (if applicable) n/a

WELL OWNER - NAME AND ADDRESS

Well Owner Chaparral Energy, LLC

Phone (405) 478-8770

Address/City/State 701 Cedar Lake Blvd. Oklahoma City OK

Zip 73114

Finding Location E on Hwy 11 out of Ponca City, OK. Turn N at Co Rd 4751 to Co Rd 4420

Well Name MW 22

Water Rights #:

TYPE OF WORK: Monitoring Well

USE OF WELL: Site Assessment

NEW WELL CONSTRUCTION DATA

Date Well or Boring Was Completed 08/01/2013

Number of wells or borings represented by this log 1

* (Borings are within the same 10 acre-tract and with the same general depths and lithologies)

Hole Diameter 7.25 inches to a depth of 250 ft.

CASING INFORMATION *Note: If surface casing is used please indicate that on the appropriate well casing information line.

Surface Pipe Material: Surface Pipe Diameter inches Surface Pipe From ft to ft

1) Well Casing Material PVC Casing Diameter 4 inches Casing From 0 ft to 150 ft

SCREEN OR PERFORATION INFORMATION

Type of Screen: PVC Type of Slots or Openings: Factory Slotted - 10 slot (0.010 inch) From 150 ft to 170 ft.

FILTER PACK INFORMATIONFilter Pack Material: Sand 10-20 (coarse)Filter Pack Interval: From 138 ft to 180**WELL SEAL INFORMATION**Type of Surface Seal Cement GroutSurface Seal Interval: From 0 ft to 2 ftType of Annular Seal Cement GroutAnnular Seal Interval: From 2 ft to 132 ftFilter Pack Seal Material Bentonite Granules/ChipsFilter Pack Seal Interval: From 132 ft to 138 ft**TYPE OF COMPLETION:** Above Ground**HYDROLOGIC INFORMATION**Depth to water at time of drilling ftEstimated yield of well gpmFirst water zone ft**LITHOLOGY DESCRIPTION**

MATERIAL	ENCOUNTERED		SATURATED
	FROM (ft.)	TO (ft.)	
Brown Clay	0	25	N
Hard Rock & Shale	25	140	N
Sand	140	170	N
Gray Shale & Rock	170	250	N

WELL LOCATION TO POTENTIAL SOURCES OF POLLUTIONHas this well been disinfected after completion of work? NoAre there any potential sources of pollution or wastewater lagoons within 300 ft. of the well? n/aDistance of Well is n/a from possible source. Type of possible source: n/a**PLUGGING INFORMATION**Date Well or Boring Was Plugged n/aTotal Depth of well being plugged ft.Was the well contaminated or was it plugged as though it was contaminated? n/aIf the well or boring was plugged as if it was contaminated, was the casing removed or perforated? n/aWas the grout tremied? n/aBackfilled with n/aBackfilled from ft. to ft.Grouted with n/aGrouted from ft. to ft.Grouted with CementGrouted from ft. to ft.Firm Name ASSOCIATED ENVIRONMENTAL INDUSTRIES, CORP.D/PC No. DPC-0269Operator Name BILLY GRAHAMOP No. OP-0957Date 08/06/2013

Comments: 4" PVC Sump Pump, 170-180ft., Bentonite Chips, 180-250.